30 by using another dual-spindle connecting block 60. Similarly, the extensive module 50 is pivotally connected to the mainframe module 20 or the display module 30 by using still another dual-spindle connecting block 60.

As shown in FIG. 5 and FIG. 6, the extensive module 50 of the chain-shaped foldable cellphone 10 can be connected to another expansible module 40, and the expansible module 40 of the chain-shaped foldable cellphone 10 can be further connected to another extensive module 50; besides, by connecting a dual-spindle connecting block 60 respectively, the expansible module 40 or the extensive module 50 connected can further be connected to still another expansible module 40 or the extensive module 50 so as to expand the uses of the chain-shaped foldable cellphone 10 and change the shape during usage.

As shown in FIG. 4, each connecting block 60 has two pivotal holes 61 for a spindle 70 to be disposed therein respectively to construct a double-pivot structure; besides, the connecting block 60 can have a flexible flat cable or PCB disposed therein for the connecting block 60 to have voice receiving or transmitting function, or be provided with a digital camera lens or a USB socket.

As shown in FIG. 5, the extensive module 50 is a complementary connector of the expansible module 40. The neighboring ends of the two modules can be connected mutually while the distant ends thereof can be connected to one of the spindles 70 of one dual-spindle connecting block 60 respectively.

For example, when a socket 42 is disposed at one end of the expansible module 40, a corresponding tenon 52 is disposed at one end of the extensive module 50. By the connection of the tenon 52 and the socket 42, the expansible module 40 and the extensive module 50 can be connected to be used. Similarly, when a tenon (not shown in the figure) is disposed at one end of the expansible module 40, a corresponding socket (not shown in the figure) is disposed at one end of the extensive module 50.

One or two ends of the mainframe module 20 and the display module 30 are used as connecting ends, while one end of the expansible module 40 and the extensive module 50 is used as a connecting end; wherein each connecting end has a connecting groove B and a pair of pivotal connecting parts A1 and A2. The connecting groove B is for the corresponding connecting block 60 to be pivotally disposed therein; besides, a round slot C is disposed respectively at two lateral faces of the connecting parts A1 and A2 facing the pivotal connecting groove B for pivotally receiving one of the spindle 70 of the dual-spindle connecting block 60. Therefore, as shown in FIG. 5, the mainframe module 20 and the display module 30 can be pivotally connected by using the two spindles 70 of the dual-spindle connecting block 60. Similarly, the expansible module 40 or the extensive module 50 can be pivotally connected to the mainframe module 20 and the display module 30 by using the two spindles 70 of the dual-spindle connecting block 60. Similarly, as shown in FIG. 5 and FIG. 6, the expansible module 40 or the extensive module 50 can be further connected to still another expansible module 40 or extensive module 50 by using the two spindles 70 of the dual-spindle connecting block 60.

The mainframe module 20 is a cellphone module with an information receiving or transmitting function and has press-type or touch-type buttons 21 for controlling information outputting or inputting.

The display module 30 is a cellphone module with an information display function and has a screen 31 for displaying information inputted/outputted.

The expansible module 40 is a cellphone module for expanding uses of the chain-shaped foldable cellphone 10 of the present invention and can be an electronic equipment module of certain purpose or a connecting module without electronic functions. The expansible module 40 is suitable to be selected from the group consisting of a digital camera module with a lens 41 as shown in FIG. 1, a power supply module, a memory module, a bluetooth module, a GPS module and a MP3 module. The connecting module without electronic functions can be an adjustable belt module. A consumer can use the adjustable belt module to attach the chain-shaped foldable cellphone 10 around the waist or carry it slantwise on the shoulder.

When the expansible module 40 of the chain-shaped foldable cellphone 10 is a power supply module or a memory module, the power capacity or memory capacity of the chain-shaped foldable cellphone 10 of the present invention is doubled. Otherwise, as shown in FIG. 3, when the chain-shaped foldable cellphone 10 in the third preferred embodiment is connected to three expansible modules 40, three extensive modules 50 and three dual-spindle connecting blocks 60, a cellphone capable of folding or stretching obversely or reversely is constructed.

Otherwise, as shown in FIG. 6, when the chain-shaped foldable cellphone 10 in the third preferred embodiment is connected to two expansible modules 40, two extensive modules 50 and two dual-spindle connecting blocks 60, a pentagonal cellphone is constructed.

Accordingly, the chain-shaped foldable cellphone 10 according to the present invention is capable of extending functions and changing shape during usage.

Although above particular embodiments of the invention have been described in detail for purposes of illustration, it will be understood by one of ordinary skill in the art that numerous variations will be possible to the disclosed embodiments without going outside the scope of the invention as disclosed in the claims.

What is claimed is:

1. A chain-shaped foldable cellphone, comprising:
- a mainframe module for receiving or transmitting information;
- a display module for displaying the information received or transmitted by the mainframe module; and
- a first dual-spindle connecting block for pivotally connecting spindles respectively to the mainframe module and the display module,
- wherein a first end of the mainframe module or the display module is further pivotally connected to a first spindle of a second dual-spindle connecting block, and a second spindle of the second dual-spindle connecting block is pivotally connected to a first expansible module, and
- wherein the first expansible module is connected to a first extensible module, which functions as a complementary connector; the first extensible module is further connected to a third dual-spindle connecting block; and a second expansible module or a second extensible module is further connected.

2. The chain-shaped foldable cellphone as cited in claim 1, wherein a second end of the mainframe module or the display module is further pivotally connected to a first spindle of a fourth dual-spindle connecting block, and a second spindle of the fourth dual-spindle connecting block is pivotally connected to a third extensible module.

3. The chain-shaped foldable cellphone as cited in claim 2, wherein the first or second expansible module is selected from the group consisting of a digital camera module, a power